

## PROJECT 10073 RECORD CARD

1. DATE 13 April 1963	2. LOCATION Moorcroft, Wyoming		12. CONCLUSIONS <input type="checkbox"/> Was Balloon <input type="checkbox"/> Probably Balloon <input type="checkbox"/> Possibly Balloon  <input type="checkbox"/> Was Aircraft <input type="checkbox"/> Probably Aircraft <input type="checkbox"/> Possibly Aircraft  <input type="checkbox"/> Was Astronomical <input type="checkbox"/> Probably Astronomical <input type="checkbox"/> Possibly Astronomical <input checked="" type="checkbox"/> Satellite Echo I <input checked="" type="checkbox"/> Other <input type="checkbox"/> Insufficient Data for Evaluation <input type="checkbox"/> Unknown
3. DATE-TIME GROUP Local 1930-2030 GMT _____	4. TYPE OF OBSERVATION <input checked="" type="checkbox"/> Ground-Visual <input type="checkbox"/> Ground-Radar <input type="checkbox"/> Air-Visual <input type="checkbox"/> Air-Intercept Radar		
5. PHOTOS <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6. SOURCE Civilian		
7. LENGTH OF OBSERVATION 15 minutes	8. NUMBER OF OBJECTS one	9. COURSE southeast	
10. BRIEF SUMMARY OF SIGHTING Flying object that looked just like a star observed in flight to SE at fairly fast speed. Passed overhead. Believed to be satellite or weather device.		11. COMMENTS Echo was over Wyoming at 1938 on 13 April heading SE & had all characteristics of rptd obj. Case evaluated as Echo I, Balloon.	





DEPARTMENT OF THE AIR FORCE  
OFFICE OF THE SECRETARY

MEMORANDUM

June 10, 1963

Sgt Moody:

Request basis for reply  
of the attached letter from:

[REDACTED]

Moorcroft, Wyo.

[REDACTED]

See also over looking 41  
738 PM Mountain SE.

AFTER FIVE DAYS RETURN TO

Miss [redacted]  
Monrovia, Libya  
Box [redacted]



National Space Agency  
U.S. Government  
Washington, D.C.



HEADQUARTERS  
FOREIGN TECHNOLOGY DIVISION  
AIR FORCE SYSTEMS COMMAND  
UNITED STATES AIR FORCE  
WRIGHT-PATTERSON AIR FORCE BASE, OHIO



REPLY TO  
ATTN OF: TDE

SUBJECT: UFO Sighting ([REDACTED])

14 June 1963

TO: Hq USAF SAF-OI 3b (Major Hart)  
Wash 25 DC

1. Reference the attached letters regarding UFO sightings. These letters are forwarded to your office for whatever action you deem necessary.
2. Mr. [REDACTED] sighting of 28 May is similar to many reported observations of aircraft contrails with the sun reflecting on them at dusk.
3. There are several White Sands sightings and no information can be forwarded unless a specific date is given. The movie "UFO" was a Green-Rouse production based on the Tremonton photos, which were evaluated as seagulls, and the Mariana pictures, which were evaluated as two F-94 aircraft.
4. The sighting of Miss [REDACTED] has been evaluated as Echo. This satellite was over Wyoming at 7:38 PM on the night of 13 April and was heading southeast.
5. Mrs. [REDACTED] sighting of 15 May is now under study.

FOR THE COMMANDER

*Eric T. de Jonckheere*  
ERIC T. de JONCKHEERE  
Colonel, USAF  
Deputy for Technology & Subsystems

3 Atch  
1. Ltr fm [REDACTED]  
2. Ltr fm [REDACTED] dtd  
3 June 1963.  
3. Ltr fm [REDACTED]  
dtd 16 May 63.



19 June 1963

Dear M [REDACTED]

Your sighting has been evaluated as Echo. This satellite was over Wyoming at 7:38 PM on the night of 13 April and was heading southeast.

Your interest in Air Force matters is appreciated.

Sincerely,

WILLIAM J. LOOKADOO  
Lt. Colonel, USAF  
Public Information Div  
Office of Information



SATELLITE 1960 JOTA 1 FOR OTHER LATITUDES										
EQUATOR S-N		LAT.	SOUTH-NORTH				NORTH-SOUTH			
TIME (UT)	LONG. (W)		TIME CORR.	LONG. CORR.	HT. (MI)	BEAR. (N-E)	TIME CORR.	LONG. CORR.	HT. (MI)	BEAR. (N-E)
APRIL 7, 1963										
0 47.2	173.11	47.4	28.9	-82.67	945	90.0*	28.9	-82.71	945	90.0*
2 42.6	202.30	45.0	23.6	-80.68	939	72.3*	34.2	-104.69	948	107.7*
4 38.0	231.50	40.0	19.5	-45.47	933	60.7*	38.4	-119.90	948	119.3*
6 33.4	260.69	35.0	16.4	-35.87	928	54.0*	41.5	-129.49	948	126.0*
8 28.8	289.88	30.0	13.7	-28.55	923	49.4	44.2	-140.80	947	136.4*
10 24.2	319.08	20.0	8.9	-17.28	915	43.7	49.1	-148.05	943	146.8*
12 19.7	348.27	0.	0.	0.	903	39.9	58.0	-153.32	935	149.1*
14 15.1	17.87	-10.0	-8.8	17.29	898	43.7	-48.4	148.18	926	146.3*
16 10.5	46.61	-30.0	-13.6	28.57	898	49.4	-53.8	136.92	921	140.6*
18 5.9	75.46	-45.0	-16.3	35.89	899	54.0	-41.1	129.40	919	126.0*
20 1.3	105.07	-40.0	-19.3	45.50	901	60.7*	-38.0	120.00	916	119.3*
21 56.7	134.25	-45.0	-23.4	60.73	903	72.3*	-33.8	104.79	912	107.7*
23 52.2	163.44	-47.4	-28.6	82.74	906	90.0*	-28.6	82.78	906	90.0*
APRIL 8, 1963										
1 47.6	192.63	47.4	28.9	-82.67	944	90.0*	28.9	-82.71	943	90.0*
3 43.0	221.83	45.0	23.6	-80.68	937	72.3*	34.2	-104.70	947	107.7*
5 38.4	251.02	40.0	19.4	-45.47	931	60.7*	38.4	-119.90	948	119.3*
7 33.8	280.22	35.0	16.4	-35.87	926	54.0*	41.5	-129.50	948	126.0*
9 29.2	309.41	30.0	13.7	-28.56	921	49.4	44.2	-140.80	947	136.6*
11 24.7	338.61	20.0	8.9	-17.28	913	43.7	49.1	-148.05	944	146.8*
13 20.1	17.80	0.	0.	0.	902	39.9	58.0	-153.32	936	149.1*
15 15.5	46.69	-10.0	-8.8	17.29	897	43.7	-48.4	148.18	928	146.3*
17 10.9	75.53	-30.0	-13.6	28.57	898	49.4	-53.8	136.92	923	140.6*
19 6.3	104.38	-45.0	-16.3	35.89	899	54.0	-41.1	129.40	921	126.0*
21 1.8	134.28	-40.0	-19.3	45.51	901	60.7*	-38.0	120.00	918	119.3*
22 57.2	163.47	-45.0	-23.4	60.73	904	72.3*	-33.8	104.78	914	107.7*
		-47.4	-28.6	82.74	907	90.0*	-28.6	82.78	909	90.0*
APRIL 9, 1963										
0 52.6	192.97	47.4	28.9	-82.69	942	90.0*	28.9	-82.72	942	90.0*
2 48.0	222.16	45.0	23.6	-80.69	936	72.3*	34.1	-104.71	946	107.7*
4 43.4	251.35	40.0	19.4	-45.48	929	60.7*	38.3	-119.91	947	119.3*
6 38.8	280.55	35.0	16.3	-35.88	924	54.0	41.5	-129.50	947	126.0*
8 34.2	309.74	30.0	13.7	-28.56	919	49.4	44.2	-140.81	947	136.6*
10 29.7	338.94	20.0	8.8	-17.29	911	43.7	49.1	-148.06	944	146.8*
12 25.1	17.93	0.	0.	0.	901	39.9	58.0	-153.33	936	149.1*
14 20.5	47.12	-10.0	-8.8	17.29	897	43.7	-48.5	148.18	928	146.3*
16 15.9	76.31	-30.0	-13.6	28.57	898	49.4	-53.8	136.93	923	140.6*
18 11.3	105.50	-45.0	-16.3	35.89	899	54.0	-41.1	129.41	921	126.0*
20 6.7	134.69	-40.0	-19.3	45.51	902	60.7*	-38.0	120.01	918	119.3*
22 2.2	163.88	-45.0	-23.4	60.73	905	72.3*	-33.8	104.79	916	107.7*
23 57.6	193.07	-47.4	-28.6	82.74	910	90.0*	-28.6	82.78	910	90.0*
APRIL 10, 1963										
1 53.0	202.49	47.4	28.9	-82.69	940	90.0*	28.9	-82.73	940	90.0*
3 48.4	231.68	45.0	23.6	-80.69	934	72.3*	34.1	-104.71	946	107.7*
5 43.8	260.88	40.0	19.4	-45.48	927	60.7*	38.3	-119.91	947	119.3*
7 39.2	290.07	35.0	16.3	-35.88	922	54.0	41.5	-129.51	947	126.0*
9 34.7	319.27	30.0	13.6	-28.56	917	49.4	44.2	-140.82	946	136.6*
11 30.1	17.46	20.0	8.8	-17.29	909	43.7	49.1	-148.07	944	146.8*
13 25.5	46.65	0.	0.	0.	899	39.9	58.0	-153.34	936	149.1*
15 20.9	75.84	-10.0	-8.8	17.29	897	43.7	-48.5	148.19	928	146.3*
17 16.3	105.03	-30.0	-13.6	28.57	898	49.4	-53.8	136.94	923	140.6*
19 11.7	134.22	-45.0	-16.3	35.89	899	54.0	-41.1	129.42	921	126.0*
21 7.1	163.41	-40.0	-19.3	45.51	903	60.7*	-38.0	120.02	918	119.3*
23 2.6	192.60	-45.0	-23.4	60.73	907	72.3*	-33.8	104.80	916	107.7*
		-47.4	-28.6	82.74	912	90.0*	-28.6	82.78	912	90.0*

SATELLITE 1960 JOTA 1 FOR OTHER LATITUDES										
EQUATOR S-N		LAT.	SOUTH-NORTH				NORTH-SOUTH			
TIME (UT)	LONG. (W)		TIME CORR.	LONG. CORR.	HT. (MI)	BEAR. (N-E)	TIME CORR.	LONG. CORR.	HT. (MI)	BEAR. (N-E)
APRIL 11, 1963										
0 58.0	192.82	47.4	28.8	-82.69	939	90.0*	28.8	-82.73	939	90.0*
2 53.4	222.01	45.0	23.6	-80.69	932	72.3*	34.1	-104.72	943	107.7*
4 48.8	251.20	40.0	19.4	-45.48	925	60.7*	38.3	-119.92	946	119.3*
6 44.2	280.40	35.0	16.3	-35.88	920	54.0	41.4	-129.52	946	126.0*
8 39.6	309.59	30.0	13.6	-28.56	915	49.4	44.1	-136.82	946	130.6*
10 35.1	338.79	20.0	8.8	-17.29	908	43.7	49.0	-148.08	945	136.4*
12 30.5	7.98	0.	0.	0.	898	39.9	58.0	-153.34	940	140.1*
14 25.9	37.17	-20.0	-8.8	17.29	896	43.7	-48.7	148.17	931	136.3*
16 21.3	66.37	-30.0	-13.6	28.57	899	49.4	-43.9	136.91	929	130.6*
18 16.7	95.56	-35.0	-16.2	35.90	901	54.0*	-41.1	129.59	927	126.0*
20 12.1	124.76	-40.0	-19.3	45.51	903	60.7*	-38.0	119.99	924	119.3*
22 7.6	153.95	-45.0	-23.4	60.73	908	72.3*	-33.9	104.78	919	107.7*
		-47.4	-28.6	82.74	914	90.0*	-28.6	82.78	914	90.0*
APRIL 12, 1963										
0 3.0	183.14	47.4	28.8	-82.69	947	90.0*	28.8	-82.74	937	90.0*
2 58.4	212.34	45.0	23.6	-80.70	930	72.3*	34.1	-104.73	942	107.7*
4 53.8	241.53	40.0	19.4	-45.49	923	60.7	38.3	-119.93	944	119.3*
6 49.2	270.72	35.0	16.3	-35.88	918	54.0	41.4	-129.52	945	126.0*
8 44.6	299.92	30.0	13.6	-28.56	913	49.4	44.1	-136.83	946	130.6*
10 40.0	329.11	20.0	8.8	-17.29	906	43.7	49.0	-148.09	945	136.4*
12 35.5	358.31	0.	0.	0.	897	39.9	57.9	-153.35	941	140.1*
14 30.9	27.50	-20.0	-8.8	17.29	896	43.7	-48.7	148.18	935	136.3*
16 26.3	56.69	-30.0	-13.6	28.58	899	49.4	-43.9	136.90	931	130.6*
18 21.7	85.89	-35.0	-16.2	35.90	901	54.0*	-41.1	129.59	929	126.0*
20 17.1	115.08	-40.0	-19.3	45.51	904	60.7*	-38.0	119.99	926	119.3*
22 12.5	144.27	-45.0	-23.4	60.73	909	72.3*	-33.9	104.78	921	107.7*
23 7.9	173.47	-47.4	-28.6	82.74	915	90.0*	-28.6	82.78	915	90.0*
APRIL 13, 1963										
1 3.4	202.66	47.4	28.8	-82.70	935	90.0*	28.8	-82.74	935	90.0*
2 58.8	231.85	45.0	23.5	-80.70	928	72.3*	34.0	-104.73	940	107.7*
4 54.2	261.05	40.0	19.4	-45.49	921	60.7	38.2	-119.93	943	119.3*
6 49.6	290.24	35.0	16.3	-35.89	916	54.0	41.4	-129.53	944	126.0*
8 45.0	319.43	30.0	13.6	-28.57	912	49.4	44.1	-136.84	945	130.6*
10 40.4	348.63	20.0	8.8	-17.29	905	43.7	49.0	-148.09	945	136.4*
12 35.8	17.62	0.	0.	0.	896	39.9	57.9	-153.35	942	140.1*
14 31.3	46.81	-20.0	-8.8	17.29	896	43.7	-48.7	148.18	936	136.3*
16 26.7	76.01	-30.0	-13.6	28.58	900	49.4	-43.9	136.90	933	130.6*
18 22.1	105.20	-45.0	-16.2	35.90	902	54.0*	-41.1	129.58	931	126.0*
20 17.5	134.40	-40.0	-19.3	45.51	906	60.7*	-38.0	119.98	928	119.3*
22 12.9	163.59	-45.0	-23.4	60.73	911	72.3*	-33.9	104.77	923	107.7*
		-47.4	-28.6	82.73	917	90.0*	-28.7	82.77	917	90.0*

ADDITIONED ORBITAL ELEMENTS FOR EARTH SATELLITE 1960 JOTA 1

REFERENCE TIME 1963 JAN 3 00 00 14 52.52 M UT  
INCLINATION 47.25 DEG.  
ASCENDING NODE (LONG.) 155.70 DEG. WEST  
PERIODE SWEEP INTERVAL ONE DAY -16.77 MIN.  
ARGUMENT OF PERIGEE 271.97 DEG.  
RATE OF CHANGE 0.38355 DEG. PER PERIOD  
ANOMALISTIC PERIOD 115.545 MIN.  
RATE OF CHANGE -0.00065 MIN. PER PERIOD  
ECCENTRICITY 0.00097  
RADIUS OF ORBIT 4898.2 MILES  
RADIUS OF SPHERE 4890.8 MILES  
RATE OF CHANGE -0.0009 MILES PER DAY  
ASCENDING NODE (LAT.) 59.00 DEG.  
RATE OF CHANGE -3.25080 DEG. PER DAY  
LATITUDE OF PERIGEE -67.21 DEG.

PERTURBED ORBITAL ELEMENTS FOR EARTH SATELLITE 1960 JOTA 1  
 REFERENCE TIME 1963 JAN 30 0 15 52.52 M UT  
 INCLINATION 47.25 DEG.  
 ASCENDING NODE LONG. 155.70 DEG. WEST  
 PERIODE SWEEP INTERVAL ONE DAY -18.77 MIN.  
 ARGUMENT OF PERIODE 271.97 DEG.  
 RATE OF CHANGE 0.48355 DEG. PER PERIODE  
 ANOMALISTIC PERIODE 115.545 MIN.  
 RATE OF CHANGE -0.00005 MIN. PER PERIODE  
 SEMI-MAJOR AXIS 4900 KM  
 RADIUS OF EARTH 6371 KM  
 RADIUS OF SPHERE 4900 KM  
 RATE OF CHANGE -0.00005 MIN. PER PERIODE  
 ANOMALISTIC PERIODE 115.545 MIN.  
 RATE OF CHANGE -0.00005 MIN. PER PERIODE  
 LATITUDE OF PERIODE -47.21 DEG.